IAP15 Rec'd PCT/PTO 2 5 SEP 2006

ORM PTO-1390 (Modified) REV. 7-2005) ATTORNEY'S DOCKET NUMBER U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE TRANSMITTAL LETTER TO THE UNITED STATES 65423-004 U.S. APPLICATION NO. (If known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 PRIORITY DATE CLAIMED INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE 13 March 2004 (13.03.2004) PCT/GB2005/000942 11 March 2005 (11.03.2005) TITLE OF INVENTION A DOHERTY AMPLIFIER APPLICANT(S) FOR DO/EO/US MOBBS, Christopher, Ian Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 1. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 2 - 🗆 This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), 3. (9) and (24) indicated below.  $\boxtimes$ The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). b. 🗍 Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) are attached hereto (required only if not communicated by the International Bureau). a. 🛚 have been communicated by the International Bureau. b. 🗆 have not been made; however, the time limit for making such amendments has NOT expired. c. 🗆 d. □ have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 8. An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 9. An English language translation of the annexes to the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371 (c)(5)). A copy of the International Preliminary Examination Report (PCT/IPEA/409). 11. A copy of the International Search Report (PCT/ISA/210).  $\boxtimes$ 12. Items 13 to 23 below concern document(s) or information included: 13. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 14. 15. .  $\boxtimes$ A FIRST preliminary amendment. A SECOND or SUBSEQUENT preliminary amendment. 16. 17 A substitute specification. 18. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 19.

A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).

A second copy of the published International Application under 35 U.S.C. 154(d)(4).

EV901740569US

 $\boxtimes$ 

Express Mail Label No.

20.

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## IAPO1 Rec'd PCT/PTO 25 SEP 2008

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

23. Other items or information:  Petition for Revival Postcard Express Mail Certificate  The following fees have been submitted:  24. Basic national fee	U.S. APPLICATION 9 14 n 2 n 8 2 CFR 1.5)		5) INTERNATIONAL	INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER			
Petition for Revival Postcard Express Mail Certificate  The following fees have been submitted: 24. Search and Search Revitable Search fee (37 CFR 1.492(c))  If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IEA/US or the international preliminary examination report prepared by IEA/US or the International preliminary examination report by IEEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0 and II other situations. \$200  25. Search fee (37 CFR 1.492(b))  If the written opinion of the ISA/US or the International preliminary examination report by IEEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0 and II other situations. \$100  Search fee (37 CFR 1.492(b))  If written opinionof the ISA/US or the International preliminary examination report by IEEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0 and II other situations. \$100  Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the sa on International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. \$100  All other situations. \$100  TOTAL OF 24, 25 and 26 = \$100  Additional Sea for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.82(C) or (e) or computer program listing The feet sits given in the search of paper or fraction thereof.  Total Sheets Extra Sheets Number of each additional 50 or fraction thereof (round up to a whole fraction thereof fround up to a whole frac			PCT/GB2005/000942			65423-004			
Postcard Express Mail Certificate  The following fees have been submitted:  24. Seasic national fee. Same Season S	23. Other items or information:								
The following fees have been submitted:  24.  Basic national fee (37 CFR 1.492(c))  25.  Sa Examination fee (37 CFR 1.492(c))  16.  Sacroft fee (37 CFR 1.492(c))  26.  Sacroft fee (37 CFR 1.492(c))  27.  Sacroft fee (37 CFR 1.492(c))  28.  Sacroft fee (37 CFR 1.492(c))  29.  Sacroft fee (37 CFR 1.492(c))  20.  Sacroft fee (37 CFR 1.492(c))  20.  Sacroft fee (37 CFR 1.492(c))  20.  Sacroft fee (37 CFR 1.492(c))  21.  Sacroft fee (37 CFR 1.492(c))  22.  Sacroft fee (37 CFR 1.492(c))  23.  Sacroft fee (37 CFR 1.492(c))  24.  Sacroft fee (37 CFR 1.492(c))  25.  Sacroft fee (37 CFR 1.492(c))  26.  Sacroft fee (37 CFR 1.492(c))  27.  Sacroft fee (37 CFR 1.492(c))  28.  Sacroft fee (37 CFR 1.492(c))  29.  Sacroft fee (37 CFR 1.492(c))  29.  Sacroft fee (37 CFR 1.492(c))  20.  Sacroft fee (37 CFR 1.492(c))  20.  Sacroft fee (37 CFR 1.492(c))  20.  Sacroft fee (37 CFR 1.492(c))  21.  Sacroft fee (37 CFR 1.492(c))  22.  Sacroft fee (37 CFR 1.492(c))  23.  Sacroft fee (37 CFR 1.492(c))  24.  Sacroft fee (37 CFR 1.492(c))  25.  Sacroft fee (37 CFR 1.492(c))  26.  Sacroft fee (37 CFR 1.492(c))  27.  Sacroft fee (37 CFR 1.492(c))  28.  Sacroft fee (37 CFR 1.492(c))  29.  Sacroft fee (37 CFR 1.492(c))  29.  Sacroft fee (37 CFR 1.492(c))  20.  Sacrof	Petition for Revival								
The following fees have been submitted:  24.  Basic national fee  25.  Seximination fee (37 CFR 1.492(c))  If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IFA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0  26.  Search fee (37 CFR 1.492(b))  If the written opinion of the ISA/US or the International preliminary examination report by IFA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0  26.  Search fee (37 CFR 1.492(b))  If the written opinion of the ISA/US or the International preliminary examination report by IFA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0  26.  Search fee (37 CFR 1.492(b))  If the written opinion of the ISA/US or the International application to the same paid on the international application to the same paid on the international application to the same paid on the international application to the same previously communicated to the US by the IB. \$500.00  • TOTAL OF 24, 25 and 26 =  Additional fee for specification and drawings filed in paper over 100 sheets (excluding an an electronic medium) (37 CFR 1.492(l)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof.  Visually and the search fee, examination fee, or the cath or declaration after the date of commencement of the national stage (37 CFR 1.492(b)).  CLAIMS  NUMBER FILED  NUMBER EXTRA  RATE  Total claims  17 - 20 = 0 x \$50.00 \$ \$0.00  MULTIPLE DEPENDENT CLAIMS (if applicable)		Ioil Cartificate							
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24. ⊠ Basic national fee	The following	ı fees have been s	ubmitted:				CALCULATIONS	PTO USE	
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0  All other situations. \$200  26. Search fee (37 CFR 1.492(b))  If the written opinion fthe ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0  Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Search flag Authority. \$100  International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. \$500.00  - TOTAL OF 24, 25 and 26 = \$1,000.00  - Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(i)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets Extra Sheets Number of each additional 50 or fraction thereof (round up to a whole additional fee for specification and the electronic medium) (37 CFR 1.492(i)).  CLAIMS NUMBER FILED NUMBER EXTRA RATE  Total claims 17 - 20 = 0 x \$50.00 \$ \$0.00  Independent claims 2 - 3 = 0 x \$200.00 \$ \$0.00  MULTIPLE DEPENDENT CLAIMS (if applicable)		•				\$300	\$ \$300.00		
prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0 All other situations. \$200  26. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0 Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0 Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0 Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or Trail on the ISA/US or									
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International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB	Search fee (37 Cl as an Interr	FR 1.445(a)(2)) ha: national Searching	s been pa Authority.	id on the international ap	plicati	ion to the	\$ \$500.00		
All other situations. \$500  TOTAL OF 24, 25 and 26 = \$1,000.00  Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(i)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets Extra Sheets Number of each additional 50 or fraction thereof (round up to a whole	International Sear	rch Report prepare	d by an IS	SA other than the US and	provi	ded to the			
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(i)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof (round up to a whole)  -100 = 0 /50 = 0	p								
Total Sheets   Extra Sheets   Number of each additional 50 or fraction thereof (round up to a whole      - 100 =   0	· TOTAI	L OF 24, 25 and	26 =				\$ \$1,000.00		
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Total Sheets   Extra Sheets   Number of each additional 50 or fraction thereof (round up to a whole      - 100 =   0	in an electro The fee is \$2	nic medium) (37 Cl 2 <b>50</b> for each addition	FR 1.4926 onal 50 sh	(j)). neets of paper or fraction t	hered	of.			
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).  CLAIMS NUMBER FILED NUMBER EXTRA RATE  Total claims 17 - 20 = 0			Numb	er of each additional 50 c	or				
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).  CLAIMS NUMBER FILED NUMBER EXTRA RATE  Total claims 17 - 20 = 0			fraction		ole				
declaration after the date of commencement of the national stage (37 CFR 1.492(h)).  CLAIMS  NUMBER FILED  NUMBER EXTRA  RATE  Total claims  17 - 20 = 0	- 100 =	0 /50 =		0		× \$250.00	\$ \$0.00		
Total claims  17 - 20 = 0	Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or						\$		
Independent claims 2 - 3 = 0 x \$200.00 \$ \$0.00  MULTIPLE DEPENDENT CLAIMS (if applicable) + \$360.00 \$ \$0.00  TOTAL OF ABOVE CALCULATIONS = \$ \$1,000.00  Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. \$ \$0.00  SUBTOTAL = \$ \$1,000.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).									
MULTIPLE DEPENDENT CLAIMS (if applicable) + \$360.00 \$ \$0.00  TOTAL OF ABOVE CALCULATIONS = \$ \$1,000.00  Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. \$ \$0.00  SUBTOTAL = \$ \$1,000.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).	Total claims	17	- 20 =	0	х	\$50.00	\$ \$0.00		
TOTAL OF ABOVE CALCULATIONS = \$ \$1,000.00  Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. \$ \$0.00  SUBTOTAL = \$ \$1,000.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).	Independent clair	ns 2	- 3=	0	x	\$200.00	\$ \$0.00		
TOTAL OF ABOVE CALCULATIONS = \$ \$1,000.00  Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. \$ \$0.00  SUBTOTAL = \$ \$1,000.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).	MULTIPLE DEPE	ENDENT CLAIMS (	if applica	ble)	+	\$360.00	\$ \$0.00		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  SUBTOTAL = \$ \$1,000.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).	TOTAL OF ABOVE CALCULATIONS =								
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).	☐ Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.						\$ \$0.00		
the earliest claimed priority date (37 CFR 1.492(i)).			\$ \$1,000.00						
the earliest claimed priority date (37 CFR 1.492(I)).				<u> </u>					
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be								
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +	accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +  TOTAL FEES ENCLOSED =								
Amount to be \$				, 017,127,121				\$	
Amount to be \$							Amount to be		

APO1 Rec d PCT/PTO 25 SEP 2006

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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ъ. 🗆	Please charge my Deposit Account Adupticate copy of this sheet is e	-	in the amount of \$	to cover the above fees.				
с. 🛚	c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No08-2789 A duplicate copy of this sheet is enclosed.							
d. 🗀	d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.							
NOTE: must b	NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to evive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.							
SEND /	ALL CORRESPONDENCE TO:							
			SIGNATURE V	1.				
			Samuel J. Haid	<u>ie</u>				
			NAME					
			42,619					
			REGISTRATION	NUMBER				
			25 September 2	006				
			DATE					

## 10/594289 IAPO1 Rec'd PCT/PTO 25 SEP 2006

## PATENT COOPERATION TREATY UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

MOBBS, Christopher, Ian

Int. App. Number:

PCT/GB2005/000942

Int. Filing Date:

11 March 2005 (11.03.2005)

Title:

A DOHERTY AMPLIFIER

## **EXPRESS MAIL CERTIFICATE**

Express Mail Label Number:

EV901740569US

Date of Deposit:

September 25, 2006

I hereby certify that a copy of the following attached papers or fees:

- TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 (3 PAGES)
- INTERNATIONAL APPLICATION PUBLISHED UNDER THE PCT
- INTERNATIONAL SEARCH REPORT AND WRITTEN OPINION
- PETITION FOR REVIVAL
- PRELIMINARY AMENDMENT
- CHECKS IN THE AMOUNT OF \$1000.00 AND \$1500.00
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